

PM101

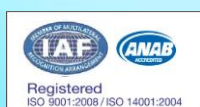
Pocket Vibration Meter



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SV Corporation

1-Ch Portable Digital Vibration Level Meter

ACC / VEL / DISP / RMS / PEAK / Pk-Pk / Digital Display

PM101-1CH

Main Features

- ◆ Hand-Held Unit for General Purpose Vibration Measurement
- ◆ Accelerometer type sensor
- ◆ RMS Velocity, Pk-Pk Displacement
- ◆ Digital Display
- ◆ Surface-mount technology for high reliability
- ◆ Touch type membrane switch panel
- ◆ Digital Signal Processing
- ◆ Portable and Compact Unit
- ◆ Economical, easy to use
- ◆ Environmental friendly
- ◆ Rugged, suitable for Industrial use



VIBRATION MEASUREMENT

Vibration Measurement on Rotating Machinery is usually done for two major applications

- ◆ Quality Control and
- ◆ Predictive Breakdown Maintenance
- ◆ In addition to the commonly understood QC applications on motors, generators, blowers, or a host of rotating or reciprocating machinery
- ◆ Vibration is increasingly being used with enormous benefits for second application: Predictive Breakdown maintenance
- ◆ In continuously running plant, where sudden breakdowns can be disastrous, Vibration is an immensely important indicator for planning an effective predictive maintenance strategy.
- ◆ Periodically observed vibration readings at strategic points on the machine will indicate a rising trend well before a breakdown occurs.
- ◆ This signals are initiative for taking timely corrective actions
- ◆ With corrective actions unexpected machine failures will be drastically reduces
- ◆ It results in substantial saving in downtime

General Introduction

- ◆ PM101 Vibration Meter is a handheld Digital instrument designed for a large variety of vibration measurement applications
- ◆ True RMS, Peak, Pk-Pk of Acceleration, Velocity and displacement can be measured
- ◆ PM101 is suitable for variety of vibration measuring needs such as for fans, blowers, turbines, generators, rotary or balanced opposed compressors, pumps, motors, alternators, engines, gearboxes, bearing etc.
- ◆ Easy to use: Just connect the sensor, attach a magnetic base or the probe, contact it to the point where the vibration is to be measured, choose appropriate scale and the units for the digital vibration readings

Construction

- ◆ PM101 Vibration Meter is scale down version of PA201 Vibration Analyzer
- ◆ Large number of vibration users prefer the advanced digital processing both from accuracy and easy to use considerations
- ◆ Very cost effective solution and stable outputs in case of non-constant inputs
- ◆ High Dynamic Range due to 24 bit ADC, built in digital amplifiers
- ◆ Rigid sensor with high frequency range as per vibration ISO standards
- ◆ Acceleration collected by sensors is digitized and processed by a DSP (Digital Signal Processor) for very accurate and real-time outputs
- ◆ State-of-art surface mount devices to keep the entire electronic on a single PCB, making it reliable and economical
- ◆ Sealed membrane type bare minimum controls available to user to increase the usability and reliability

Industrial Meter

SPEC

Industrial Meter Specification



ITEM	DAQ SPEC
A/D Converter	24 Bit
Input Channel	1 - Channel
Sensor Type	IEPE
Sampling Frequency	20,000Hz
Input Range	$\pm 5V(\text{peak})$ or $\pm 2.5V(\text{peak})$
Dynamic Range	<High> : 30 ~ 130 dB, +/-50g full scale ← default <Medium> : 20 ~ 110, dB, +/-5 g <Low> : 0 ~ 90 dB, +/-0.5 g
Input Signal Gain	1, 10,100
SNR	100dB More
Frequency Range	2Hz - 10kHz(3dB)
Temperature	-10°C to +55°C

Digital Meter Technical Specifications

Measurement Mode	True RMS, Peak, Pk-Pk of Acc, Vel and Disp
Sensor Type	Accelerometer
Contact Method	Magnetic base or Stainless steel tipped touch Probe
Indication	Digital Meter
Range:	
Velocity	6 ranges with full scale 1,3,10,30,100 and 300 mm/sec RMS
Displacement	6 ranges with full scale 10,30,100,300,1000 and 3000 microns Pk-Pk
Frequency Range	2 Hz to 10,000 Hz (120 RPM to 6,00,000 RPM)
Battery	2 AA Battery
Approx Life per Charge	10 hours continuous
Dimensions	150 mm X 80 mm X 35 mm
Weight	Less than 0.5 Kg
Environmental	-10 to 55 degree
Standard Accessories	Accelerometer Sensor, 2 meters Cables, Magnetic Base, 250 mm Touch Probe, Carrying Case, Operation Manual

Note: Technical data and specification subject to change.

Special Vibration Meter can be made on request, Please send us your technical requirements and application details.

Company Specialized in Sound/Vibration



SV Corporation

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